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Sent: Tuesday, July 21, 2020 9:27 AM

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CC: Fielding, Daniel [daniel.fielding@aptim.com]

Subject: [Non-DoD Source] HPNS Parcel E Phase 1 and Phase 3 Weekly CQC Meetings

Attachments: D2005 CTO 0024 Project QC Meeting No. 030 Parcel E Phase 1 Agenda 2020-0721.pdf; D0006 CTO 4761 Agenda Parcel E Phase 3 072120 (Rev 00).pdf

Good morning-

Attached are the handouts for the Parcel E Phase 1 and 3 QCQ meetings.

Kevin

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Project QC Meeting #015 Agenda (07/21/2020)
Parcel E Remedial Action – Phase 3
Hunters Point Naval Shipyard, San Francisco, CA
Contract N62473-17-D-0006 CTO 4761

Call-in number: (b) (4)

Start: 1120

End:

Safety Topic: Wildlife on and around the work site

Old Business

Submittals

- Submittal 001 - Rebar for Seawall
 - Submitted to Navy for informational purposes only on 2/17/20
- Submittal 002 – Shoring Design
 - Approved by Navy on 03/24/20
- Submittal 003 – Slurry Mix Design
 - Approved by Navy on 02/27/20
- Submittal 004 – Import Fill (Stanford Pile)
 - Approved by Navy on 03/24/20
- Submittal 005 – Drain Rock (Virgin Source Material - Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - Approved by Navy on 03/24/20
- Submittal 006 – Rip Rap Armor Stone (Product data sheets/test reports)
 - Approved by Navy 5/18/20
- Submittal 007 – Slurry Wall Implementation Plan
 - Approved by Navy 5/18/20
- Submittal 008 – Filter Fabric Product Data
 - Submitted to Navy on 6/01/20
 - Note that product data was also submitted for informational purposes for the Geogrid Reinforcement required for armored revetment at IR02 NW (the project specs for which *do not* require government approval)
- Submittal 009 – Cone Penetrometer Testing (CPT) Investigation
 - **Awaiting final Navy approval**

New Business

Status of Work

- Continued demobilization of slurry wall batch plant equipment
- Continued upland excavation of geogrid anchor
- Receipt of geogrid and Mirafi fabric rolls
- UXO Construction Oversight
- Radiological controls and support
- Site maintenance ongoing (BMPs, fencing, etc.)
- Ongoing upwind and downwind continuous air monitoring, as well as work area real-time dust monitoring using personal data RAMs (pDRs)

Project QC Meeting #015 Agenda (07/21/2020)
Parcel E Remedial Action – Phase 3
Hunters Point Naval Shipyard, San Francisco, CA
Contract N62473-17-D-0006 CTO 4761

Analytical Results

- No new analytical results received

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi – Navy ROICC
- Doug DeLong – Navy CSO
- Jamie DelPozzo – BioMaAS
- Nina Bacey – DTSC
- Peyton Ward – DTSC
- Ryan Ahrling – DTSC

Work to be accomplished the remainder of this week

- Continue excavation of upland soil for geogrid anchor
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached 2-week look ahead)

- Continue excavation of upland soil for geogrid anchor
- Prep for geogrid installation
- Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

Inspections

Preparatory

- None

Initial

- None

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- UXO Construction Oversight
- Geogrid and Revetment activities

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Off-site Work or Materials Testing

- None

Additional Documentation Required

- None

QC, Production Issues

- None

Safety Issues

- APTIM night security guard was involved in a motor vehicle accident (07/16/20 2300)

Items That May Require Revising Project Plans

- None

Action Items

- None

Comments/Questions

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 3
 Hunters Point Naval Shipyard, San Francisco, CA
 Contract N62473-17-D-0006 CTO 4761

07/20/2020 Monday	07/21/2020 Tuesday	07/22/2020 Wednesday	07/23/2020 Thursday	07/24/2020 Friday	07/25/2020 Saturday	07/26/2020 Sunday
<ul style="list-style-type: none"> Excavate Upland Soil for Geogrid Anchor Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	<ul style="list-style-type: none"> Weekly CQC Meeting Excavate Upland Soil for Geogrid Anchor 	<ul style="list-style-type: none"> Excavate Upland Soil for Geogrid Anchor 	<ul style="list-style-type: none"> Excavate Upland Soil for Geogrid Anchor 	<ul style="list-style-type: none"> Excavate Upland Soil for Geogrid Anchor 	No fieldwork	No fieldwork
07/27/2020 Monday	07/28/2020 Tuesday	07/29/2020 Wednesday	07/30/2020 Thursday	07/31/2020 Friday	08/01/2020 Saturday	08/02/2020 Sunday
<ul style="list-style-type: none"> Excavate Upland Soil for Geogrid Anchor (if needed) Prep for Geogrid installation Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	<ul style="list-style-type: none"> Weekly CQC Meeting Prep for Geogrid installation 	<ul style="list-style-type: none"> Prep for Geogrid installation 	<ul style="list-style-type: none"> Prep for Geogrid installation 	<ul style="list-style-type: none"> Prep for Geogrid installation 	No fieldwork	No fieldwork
08/03/2020 Monday	08/04/2020 Tuesday	08/05/2020 Wednesday	08/06/2020 Thursday	08/07/2020 Friday	08/08/2020 Saturday	08/09/2020 Sunday
<ul style="list-style-type: none"> Prep for Geogrid installation Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	<ul style="list-style-type: none"> Weekly CQC Meeting Prep for Geogrid installation Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 	<ul style="list-style-type: none"> Prep for Geogrid installation Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 	<ul style="list-style-type: none"> Prep for Geogrid installation Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 	<ul style="list-style-type: none"> Prep for Geogrid installation Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 	No fieldwork	No fieldwork

*Subject to change based on field conditions

Project QC Meeting #030 Agenda (07/21/2020)
Parcel E Remedial Action – Phase 1
Hunters Point Naval Shipyard, San Francisco, CA
Contract N62473-12-D-2005 CTO 0024

Call-in number: (b) (4)

Start: 1100

End:

Safety Topic: Wildlife on and around the work site

Old Business

Field Change Requests (FCR)

- 001: Existing SS/SD lines in RA excavations – Navy Approved (05/01/20)
- 002: ISO-Pacific Soil Sorting System (S3) Proof of Concept Demonstration.
 - Approval was received by APTIM on 12/31.
- 003: Former SS/SD trenches in RA excavations - **In Navy review**
- 004: Excavation Dewatering - Navy approved 3/12
- 005: Addition of back-up laboratory (Enthalpy) to expedite TAT –Navy RPM approved 3/12/2020. SAP addendum (FCR) submitted 3/13/2020 to QAO. 4/17/20 – canceled as Enthalpy lab closed (permanently out of business)
- 006: Impacts of the radiological rework areas on non-excavation, intrusive RA activities (i.e. well installation/decommissioning, GW injections, and soil gas surveys). APTIM prepared draft FCR; but on hold as need Navy to confirm extent of rework areas and potential limitations to planned Phase 1 RA work outside of IR-02 to identify impacts. – **on hold**

Submittals

- Submittal 001 – Import Fill (Stanford Pile)
 - Approved by Navy on 12/19/19; CDPH 01-08-2020
- Submittal 002 – Drain Rock (Virgin Source Material - Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - Approved by Navy on 02-27-2020

New Business

Status of Work

- Completed backfill and compaction at EX02B401, EX02B100, and EX02B256
- Continued S3 Proof-of-Concept Demonstration
- Collected SF Bay surface water samples
- Continued transferring soil to stockpiles and screening to 2-inch minus with PowerScreen
- Received 1,764cy of clean import fill and 220 tons of ¾" drain rock
- Escorted representatives from DTSC on a site visit to view the completed slurry wall (7/16/20)
- Site maintenance (BMPs, fencing, etc.)
- Sanitized all equipment daily
- Conducted upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).

Project QC Meeting #030 Agenda (07/21/2020)
Parcel E Remedial Action – Phase 1
Hunters Point Naval Shipyard, San Francisco, CA
Contract N62473-12-D-2005 CTO 0024

Analytical Results

- See attached, new results are highlighted.

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi – Navy ROICC
- Doug Delong – Navy CSO
- Jamie DelPozzo – BioMaAS
- Nina Bacey – DTSC
- Peyton Ward – DTSC
- Ryan Ahrling - DTSC

Work to be accomplished the remainder of this week

- Continue screening excavated soil to remove smaller debris
- Continue S3 Proof-of-Concept Demonstration with RSY Pad Screening
- Waste stockpiling
- Collect SF Bay surface water samples
- Air monitoring, site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached current plus 3-week look ahead)

- Conduct over-excavations and confirmation sampling as necessary
- Conduct backfilling of excavations as appropriate
- Screen excavated soil to remove smaller debris
- Continue S3 Proof-of-Concept Demonstration with RSY Pad Screening
- Load, place and scan soil on RSY Pads
- Conduct upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).
- Site maintenance (BMPs, fencing, etc.)

Inspections

Preparatory

- None

Initial

- None

Project QC Meeting #030 Agenda (07/21/2020)
Parcel E Remedial Action – Phase 1
Hunters Point Naval Shipyard, San Francisco, CA
Contract N62473-12-D-2005 CTO 0024

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- UXO Construction Oversight
- Soil Excavations
- Confirmation Sampling

Off-site Work or Materials Testing

- None

Additional Documentation Required

- None

QC, Production Issues

- None

Safety Issues

- APTIM night security guard was involved in a motor vehicle accident (07/16/20 2300)

Items That May Require Revising Project Plans

- APTIM has received Navy direction to operate the S3 Soil Screener with the ROI 3 alarm temporarily set to 0.75 pCi/g. This ROI 3 modified control position is only authorized through the processing of the volume of soil that supports the Parcel E S3 Proof of Concept test (2,560 cy). FCR-007 tracks Navy approval.

Action Items

Comments/Questions

Analytical Results
Final Confirmation Soil Samples
Remedial Action at Parcel E - Phase 1
Hunters Point Naval Shipyard, San Francisco, California
Contract N62473-12-D-2005 CTO 0024

Excavation ID	Date Sampled	Meets Tier 2 Criteria	Chemicals of Concern	Comments
EX02B256	07/10/20	Y	Copper, Lead, Zinc	OK to backfill
EX02GR71SW	07/09/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in excavation floor (3.7 mg/kg)
EX02TA16A	07/09/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in east sidewall (1.8 mg/kg) and south sidewall (2.8mg/kg)
EX02B122C	06/24/20	N	Copper, TPH, Benzo(a)pyrene, PCBs	Copper exceeds Tier 2 criteria (2,350mg/kg) in 2 floor samples (3,000mg/kg and 5,100mg/kg), north sidewall (3,400mg/kg), east sidewall (3,400mg/kg), and south sidewall (2,800mg/kg)
EX02B415	06/23/20	Y	Arsenic, Lead, Aroclor-1260	OK to backfill
EX02S320	06/23/20	N	Benzo(a)pyrene, Benzo(b)fluoranthene, Aroclor-1260	AR-1260 exceeds T2 (3.7mg/kg) in north sidewall (34mg/kg), south sidewall (4.5mg/kg), and west sidewall (40mg/kg)
EX02B122A	06/22/20	N	TPH, Aroclor-1260	Total TPH exceeds Tier 2 criteria (3,500mg/kg) in excavation floor (6,011mg/kg)
EX02B288	06/09/20	N	Lead, Zinc	Lead (2,200mg/kg) and Zinc (5,100mg/kg) in floor, and Lead (3,900mg/kg) and Zinc (85,000mg/kg) in the east sidewall exceeded Tier 2 criteria (Lead 775mg/kg, and Zinc 3,600mg/kg)
EX02GR184SW	06/03/20	Y	Aroclor-1254	OK to backfill
EX02B456	6/5/20-6/8/20	Y	Copper, Zinc, TPH	OK to backfill
EX02B401	5/21/20-6/01/20	N	Aroclor-1260	AR1260 (31,000 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR179SW	06/04/20	N	Copper, Zinc	Copper (1,000mg/kg in floor, 6,000mg/kg in south sidewall) exceed, T2 criteria (620mg/kg) Zinc (1,500mg/kg in floor, 820 mg/kg

Analytical Results
Final Confirmation Soil Samples
Remedial Action at Parcel E - Phase 1
Hunters Point Naval Shipyard, San Francisco, California
Contract N62473-12-D-2005 CTO 0024

				in south sidewall) exceed, T2 criteria (790mg/kg)
EX02GR179SW	06/30/20	Y	Copper, Zinc	Backfilled OK to backfill
EX02SS310	06/02/20	Y	Lead	OK to backfill
EX02B412	05/24/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in west sidewall (1.8mg/kg) and east sidewall (1.9mg/kg)
EX02B412 sidewall step-out	6/8/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in east sidewall (2.8 mg/kg)
EX02B412 sidewall step-out #2	7/6/20	Y	Benzo(a)pyrene	OK to backfill
EX02B398	05/20/20	Y	Lead	OK to backfill
EX02B461	05/14/20	N	Benzo(a)pyrene Benzo(b)fluoranthene	B(a)P (2.4mg/kg) exceeds T2 (1.7mg/kg) in west sidewall
EX02B461- sidewall step-out	6/01/20	Y	Benzo(a)pyrene	OK to backfill
EX02B100	5/14/20	N	Aroclor-1260	AR1260 (10mg/kg) exceeds T2 (3.7mg/kg) in sidewall SW-03
EX02B100- sidewall step-out	6/1/20	N	Aroclor-1260	AR1260 (9.3 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR93SW (EOS-1)	5/14/20	N	Copper, Lead, TPH	Lead (1,300mg/kg, T2=1,300) TPH (11,903mg/kg, T2=3,500mg/kg) exceed T2 in sidewall SW-01-2.5
EX02GR93SW (EOS-1) – Sidewall step-out	6/1/2020	N	Lead, TPH	Lead (2,100mg/kg, T2=1,300) exceeds T2 criteria in north sidewall @ 2.5-feet
EX02GR93SW (EOS-1) – Sidewall step-out #2	6/30/20	Y	Lead	OK to backfill
EX02MW149	5/14/20	N	Arsenic, Lead, Benzo(a)pyrene (BaP)	BaP (1.7mg/kg) exceeds T2 criteria (1.7mg/kg) in sidewall SW-02
EX02B149- sidewall step-out	06/01/20	Y	Benzo(a)pyrene	Ready for backfill
EX02B122E	5/13/20	N	Lead, Aroclor-1260, Dieldrin	Aroclor-1260 (12mg/kg) exceeded T2 criteria (3.7mg/kg) in floor sample

**Analytical Results
Final Confirmation Soil Samples
Remedial Action at Parcel E - Phase 1
Hunters Point Naval Shipyard, San Francisco, California
Contract N62473-12-D-2005 CTO 0024**

EX02B122E-floor step-out	5/27/20	Y	Aroclor-1260	Ready for backfill
EX02B403	5/13/20	Y	Manganese	Ready for backfill
EX02B405	5/6/20	Y	Zinc	Ready for backfill
EX02B442	5/6/20	Y	Aroclor-1260	Ready for backfill
EX36B015	11/22/19	Y	Copper, Mercury, TPH	Backfill complete
EX36B033	11/22/19	Y	Copper, Mercury, TPH	Backfill complete
EX36B163	11/22/19	N	alpha-BHC (pest.), copper, mercury	1 sidewall exceeded Tier 2 criteria for Cu. Plan to conduct step-out excavation. ^a
EX36B116	11/25/19	Y	SVOCs	Backfill complete
EX04B030 – Pre-characterization	12/10/19	N		
			PCBs, metals	3 sidewalls exceeded Tier 2 criteria. Plan to extend excavation on 3 sides to 2 feet beyond pre-characterization locations.
EX13B007	12/10/19	N	PCBs	
				PCB above limit in 3 sidewalls
EX72SS23	12/10/19	Y	Zinc	Backfill complete
EX01SS350	12/10/19	N	PCBs	PCB above limit in all 4 sidewalls and bottom
EX56B021	12/30/19	Y	Mercury	Backfill complete

Notes:

Table presents confirmation sample results unless otherwise noted.

^a *Sidewall will be over-excavated 2-feet back from the original sidewall and laterally (10-feet maximum on each side of confirmation sample location). A confirmation sample will collected at the same depth as the original confirmation sample and analyzed for the constituent that exceeded Tier 2 criteria in the original confirmation sample.*

Floor will be over-excavated 1-foot deeper and laterally (2.5-feet in each direction from the original confirmation sample location). A confirmation sample will collected at the same location as the original confirmation sample and analyzed for the constituent(s) that exceeded Tier 2 criteria in the original confirmation sample. Unless an additional step-down excavation extends the original planned excavation depth to below 5 feet, additional sidewall samples are not required and only a replacement bottom sample will be collected.

**Analytical Results
Final Confirmation Soil Samples
Remedial Action at Parcel E - Phase 1
Hunters Point Naval Shipyard, San Francisco, California
Contract N62473-12-D-2005 CTO 0024**

See Section 8.3.6 of RAWP and Section 17.1.2 of the SAP

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 1

Hunters Point Naval Shipyard, San Francisco, CA

Contract N62473-12-D-0005 CTO 0024

07/20/2020 Monday	07/21/2020 Tuesday	07/22/2020 Wednesday	07/23/2020 Thursday	07/24/2020 Friday	07/25/2020 Saturday	07/26/2020 Sunday
<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Conduct over-excavations (as needed) • Post excavation sampling • Waste stockpiling • Rad Controls and support (all week) • UXO support (all week) • Air monitoring (all week) • BMP Inspection/site maintenance (Daily) • Screen Excavated Soil 	<ul style="list-style-type: none"> • Weekly CQC Meeting • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling • Collect SF Bay surface water samples 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	No fieldwork	No fieldwork
07/27/2020 Monday	07/28/2020 Tuesday	07/29/2020 Wednesday	07/30/2020 Thursday	07/31/2020 Friday	08/01/2020 Saturday	08/02/2020 Sunday
<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Conduct over-excavations (as needed) • Post excavation sampling • Waste stockpiling • Rad Controls and support (all week) • UXO support (all week) • Air monitoring (all week) • BMP Inspection/site maintenance (Daily) • Screen Excavated Soil 	<ul style="list-style-type: none"> • Weekly CQC Meeting • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling • Collect SF Bay surface water samples 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Proof of Concept • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	No fieldwork	No fieldwork
08/03/2020 Monday	08/04/2020 Tuesday	08/05/2020 Wednesday	08/06/2020 Thursday	08/07/2020 Friday	08/08/2020 Saturday	08/09/2020 Sunday
<ul style="list-style-type: none"> • ISO-Pacific S3 Operations • Load, Place, & Scan Soil on RSY Pads • Conduct over-excavations (as needed) • Post excavation sampling • Waste stockpiling • Rad Controls and support (all week) • UXO support (all week) • Air monitoring (all week) • BMP Inspection/site maintenance (Daily) • Screen Excavated Soil 	<ul style="list-style-type: none"> • Weekly CQC Meeting • ISO-Pacific S3 Operations • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Operations • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling • Collect SF Bay surface water samples 	<ul style="list-style-type: none"> • ISO-Pacific S3 Operations • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	<ul style="list-style-type: none"> • ISO-Pacific S3 Operations • Load, Place, & Scan Soil on RSY Pads • Screen Excavated Soil • Waste stockpiling 	No fieldwork	No fieldwork

*Subject to change based on field conditions